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NOTICE OF ALLOWANCE AND FEE(S) DUE

23632

7590

07/29/2008

SHELL OIL COMPANY P O BOX 2463 HOUSTON, TX 772522463 EXAMINER

VANOY, TIMOTHY C

ART UNIT PAPER NUMBER

1793

DATE MAILED: 07/29/2008

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/536,532 05/26/2005 Jolinde Machteld Van De Graaf TS1214 US 7486

TITLE OF INVENTION: PROCESS FOR REMOVING SULPHUR COMPOUNDS INCLUDING HYDROGEN SULPHIDE AND MERCAPTANS FROM GAS STREAMS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	10/29/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/536,532	05/26/2005	Jo	linde Machteld Van De Gra	ıaf		TS1214 US	7486
IITLE OF INVENTION GAS STREAMS	: PROCESS FOR REMO	OVING SULPHUR COM	IPOUNDS INCLUDING I	IYDROGEN SULI	PHIDE	AND MERCAPTAN	IS FROM
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0		\$1740	10/29/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
VANOY, TI	МОТНҮ С	1793	423-220000				
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Unl	ess an assignee is identi	Indication form ed. Use of a Customer TO BE PRINTED ON The field below, no assignee	(1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attorlisted, no name will be THE PATENT (print or type data will appear on the part a substitute for filing an armore than the part of the p	ely, firm (having as a gent) and the name neys or agents. If rorinted. e) tent. If an assigne	memb es of u no nam	er a 2p to le is 3	ocument has been filed for
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☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			☐ The Director is hereby	on the by credit card. Form PTO-2038 is attached. rector is hereby authorized to charge the required fee(s), any deficiency, or credit any syment, to Deposit Account Number (enclose an extra copy of this form).			
5. Change in Entity Stat a. Applicant claims	tus (from status indicated s SMALL ENTITY statu	/	☐ b. Applicant is no long	er claiming SMAL	L ENT	ΓΙΤΥ status. See 37 CI	FR 1.27(g)(2).
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if requeecords of the United Stat	iired) will not be accepted tes Patent and Trademark	d from anyone other than the Office.	e applicant; a regis	tered a	nttorney or agent; or th	e assignee or other party in
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This collection of inform an application. Confident submitting the completec his form and/or suggesti Box 1450. Alexandria. V	ation is required by 37 C tiality is governed by 35 I application form to the ons for reducing this bur irginia 22313-1450. DO	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR (on is required to obtain or re 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by the mated to take 12 n dual case. Any con r, U.S. Patent and T D THIS ADDRESS	e publ ninutes mment Fraden SENI	ic which is to file (and to complete, includin s on the amount of tin nark Office, U.S. Depa D TO: Commissioner	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/536,532	05/26/2005	Jolinde Machteld Van De Graaf	TS1214 US	7486
23632 75	90 07/29/2008		EXAM	INER
SHELL OIL COMPANY			VANOY, T	МОТНҮ С
P O BOX 2463			ART UNIT	PAPER NUMBER
HOUSTON, TX 77	/2522463		1793	
			DATE MAILED: 07/29/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 380 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 380 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
Notice of Allowability	10/536,532	VAN DE GRAAF, JOLINDE MACHTELD	
	Examiner	Art Unit	
	TIMOTHY C. VANOY	1793	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due cou	ırse. THIS
1. X This communication is responsive to the Appeal Brief filed	on July 8, 2008.		
2. ☑ The allowed claim(s) is/are <u>1-20</u> .			
 Acknowledgment is made of a claim for foreign priority ur a)	e been received. e been received in Application No cuments have been received in this r of this communication to file a reply	national stage application	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			ICE OF
 CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date 	son's Patent Drawing Review(PTO-	·	
I dentifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		_T	ck) of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL n	nust be submitted. Note	e the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal Pages No./Mail Dat Paper No./Mail Dat Pages No./Mail Dat Pages No./Mail Dat Pages No./Mail Dat Pages No. ☐ Examiner's Amendn No. ☐ Examiner's Stateme No. ☐ Other	(PTO-413), e nent/Comment	nce
	Primary Examiner, Art Unit	1793	

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REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The Appellants' arguments submitted in the Appeal Brief filed on July 8, 2008 have been found persuasive. The Appellant has successfully argued that the independent claims are limited to specific concentrations of the water; physical solvent and amine in the washing solution (the independent claims are drawn to a washing solution containing 10 to 45 wt % water; 10 to 40 wt. % of a physical solvent and 20 to 60 wt % of an amine). The specific claimed concentrations of the components of the washing solution are not taught or suggested in GB 2 275 625 A. GB 2 275 625 A appears to only generically disclose that a suitable regenerable aqueous absorbent is an aqueous solution of a chemical sorbent such as an alkanol amine, which contains a physical sorbent such as sulfolane (please see pg. 1 lns. 15-18 in GB 2 275 625 A). However, GB 2 275 625 A does not mention what the concentrations of these components of the washing solution are. Further, the Appellant has persuasively argued that the independent claims are limited to treating a gas stream containing a high ratio of mercaptans to hydrogen sulfide. It is impossible to determine what the mercaptans to hydrogen sulfide ratios are in the gas stream that GB 2 275 625 A treats because GB 2 275 625 A does not disclose any concentrations of hydrogen sulfide, so that it can not be submitted that GB 2 275 625 A treats a gas stream containing a high ratio of mercaptans to hydrogen sulfide. It appears that the process of GB 2 275 625 A only treats a typical natural gas that contains normal ratios of mercaptans to hydrogen sulfide, whereas the Appellant is

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treating an atypical natural gas that contains a high ratio of mercaptans to hydrogen sulfide.

Any comments considered necessary by Appellant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TIMOTHY C. VANOY whose telephone number is (571)272-8158. The examiner can normally be reached on Mon-Fri 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman, can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Timothy C Vanoy Primary Examiner Art Unit 1793

tcv

/Timothy C Vanoy/ Primary Examiner, Art Unit 1793